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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,392	02/06/2004	Sherif Yacoub	200310469-1	6342
22879 7590 10/29/2008 HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION			EXAMINER	
			SAINT CYR, LEONARD	
	FORT COLLINS, CO 80527-2400		ART UNIT	PAPER NUMBER
			2626	
			NOTIFICATION DATE	DELIVERY MODE
			10/29/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

JERRY.SHORMA@HP.COM mkraft@hp.com ipa.mail@hp.com

	Application No.	Applicant(s)					
Office Action Comments	10/773,392	YACOUB ET AL.					
Office Action Summary	Examiner	Art Unit					
	LEONARD SAINT CYR	2626					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 11 Au	iaust 2008						
	action is non-final.						
	/ _						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
dicocca in accordance with the practice and in	x parte gadyle, 1000 C.D. 11, 10	0.0.210.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-6, 9 -13, 15-18, 21, and 22</u> is/are pe	ending in the application.						
4a) Of the above claim(s) is/are withdrav	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-6, 9 -13, 15-18, 21, and 22</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
	•						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>02/06/04</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
·— ·— ·—							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
dee the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Taper No(s)/Mail Date Notice of Informal Patent Application							
Paper No(s)/Mail Date 6) Other:							

DETAILED ACTION

1. In view of the appeal brief filed on 08/11/08, PROSECUTION IS HEREBY REOPENED. New grounds of rejection are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

Response to Arguments

2. Applicant's arguments with respect to claims 1 - 6, 9 - 13, 15 - 18, 21, and 22 have been considered but are moot in view of the new ground(s) of rejection.

Applicant argues that Johnson does not teach or suggest the first speech recognition engine permits a plurality of ports to be used on behalf of a plurality of users and the system further comprises a port monitor coupled to the first speech recognition

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engine and to the evaluation logic, wherein the port monitor determines a number of currently available ports and, if the number of currently available ports exceeds a threshold selecting and using the first speech recognition engine (Appeal brief, pages 10 - 13).

The examiner agrees, but this limitation is now rejected in view of Endo et al., in view Watanabe et al. Please see claim rejection below.

Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-4, 6, 9-13, 15-18, 21, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Endo et al., (US Patent 7,228,275) in view of Watanabe et al., (US Patent 4, 641,342).

As per claims 1, and 9, 15, and 21, Endo et al., teach a system, comprising: a first speech recognition engine; a second speech recognition engine (Abstract, lines 1 – 3); and

evaluation logic ("decision module") coupled to the first and second speech recognition engines, the evaluation logic evaluates the first and second speech recognition engines based on evaluation signals from a user and, based in part on the evaluation, selects one of said speech recognition engines to process additional speech signals from the user (Abstract, col.2, lines 28 – 48).

However, Endo et al., do not specifically teach the first speech recognition engine permits a plurality of ports to be used on behalf of a plurality of users and the system further comprises a port monitor coupled to the first speech recognition engine and to the evaluation logic, wherein the port monitor determines a number of currently available ports and, if the number of currently available ports exceeds a threshold selecting and using the first speech recognition engine.

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Watanabe et al., teach detector can also be used to selectively switch an active one of a plurality of user channels to one of a smaller number of voice recognizers. A change-over switch 14 connects m voice pattern outputs to n separate recognition input terminals $121, 122, \ldots, 12j, \ldots, 12n$ of a recognition means 15 which recognizes the voices received on its n separate recognition input terminals as the outputs from the change-over switch 14. The recognition means 15 can recognize n separate voice simultaneously (Abstract, lines 7 - 10; col.4, lines 5 - 12; col.6, lines 4 - 6).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to recognize n separate voices simultaneously using a single recognizer as taught by Watanabe et al in Endo et al., because that would help monitor when to use different speech recognizers at the same time.

As per claims 2, 10, Endo et al., in view of Watanabe et al., further disclose a switch coupled to the first and second speech recognition engines and the evaluation logic, wherein, based on the evaluation, the evaluation logic causes the switch to

release a connection to the speech recognition engine that was not selected (Endo et al; "selects the speech text with the highest raw confidence score...for controlling the back-end application"; col.6, lines 20 – 24).

As per claim 3, Endo et al., in view of Watanabe et al., further disclose a communications mechanism and, based on the evaluation, the evaluation logic selects the communications mechanism that is not the first or second speech recognition engines (Endo et al; "selects the speech text with the highest raw confidence score...for controlling the back-end application"; col.6, lines 14 - 24).

As per claim 4, Endo et al., in view of Watanabe et al., further disclose if the number of currently available ports does not exceed the threshold, comparing outputs from the first and second speech recognition engines, and selecting the second speech recognition engine if the outputs are identical (Endo et al; "confidence scores are the same"; col.8, lines 34 - 37)

As per claim 6, Endo et al., in view of Watanabe et al., further disclose if the number of currently available ports does not exceed the threshold, the evaluation logic receives a first confidence score from the first speech recognition engine and a second confidence score from the second speech recognition engine and selects the second speech recognition engine if the confidence score of the second speech recognition engine is equal to or higher than a threshold (Endo et al; col.2, lines 45 – 48; col.8, lines

42 - 48).

As per claim 11 – 13, 16 -18, 22, Endo et al., in view of Watanabe et al., further disclose means for evaluating a parameter comprises means for assessing the relative accuracy of the first and second means for recognizing speech; wherein the means for evaluating a parameter comprises means for assessing the relative performance of the first and second means for recognizing speech; and wherein the first and second means for recognizing speech comprise a means for determining a confidence score associated with the voice input (Endo et al; "confidence scores for selection of the most accurate one of the recognized speech texts"; col.11, lines 4 - 6).

4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Endo et al., (US Patent 7,228,275) in view of Watanabe et al., (US Patent 4, 641,342), and further in view of Kemble et al., (US Patent 7,072,837).

As per claim 5, Endo et al., in view of Watanabe et al., do not specifically teach that the evaluation logic determines a response time for each of the first and second speech recognition engines and selects the second speech recognition engine if the response time of the second speech recognition engine is equal to or shorter than the response time of the first speech recognition engine.

Kemble et al., teach that the processing tasks can be allowed only a predetermined and limited amount of time for completion. Specifically, the speech recognition system can restrict the selection of recognition results to only those from

possible recognition results provided by the processing tasks which complete execution within the predetermined time limit (col.7, lines 51 - 57).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to consider response time in speech recognition systems as taught by Kemble et al., in Endo et al., in view of Watanabe et al., because the response time is more critical than the accuracy of the speech recognition (col.7, lines 50, and 51).

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please see PTO-892-form.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEONARD SAINT CYR whose telephone number is (571) 272-4247. The examiner can normally be reached on Mon- Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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LS 10/21/08

> /Richemond Dorvil/ Supervisory Patent Examiner, Art Unit 2626